

## PATENT COOPERATION TREATY

PCT/EP2002/006269



Translation

## PCT

## INTERNATIONAL PRELIMINARY EXAMINATION REPORT

(PCT Article 36 and Rule 70)

Applicant's or agent's file reference 2002P08525WO	<b>FOR FURTHER ACTION</b> See Notification of Transmittal of International Preliminary Examination Report (Form PCT/IPEA/416)	
International application No. PCT/EP2002/006269	International filing date (day/month/year) 07 June 2002 (07.06.2002)	Priority date (day/month/year)
International Patent Classification (IPC) or national classification and IPC H04L 29/06, 12/28, 29/12, 29/08		
Applicant SIEMENS AKTIENGESELLSCHAFT		

1. This international preliminary examination report has been prepared by this International Preliminary Examining Authority and is transmitted to the applicant according to Article 36.

2. This REPORT consists of a total of 5 sheets, including this cover sheet.

☒ This report is also accompanied by ANNEXES, i.e., sheets of the description, claims and/or drawings which have been amended and are the basis for this report and/or sheets containing rectifications made before this Authority (see Rule 70.16 and Section 607 of the Administrative Instructions under the PCT).

These annexes consist of a total of 9 sheets.

3. This report contains indications relating to the following items:

- I ☒ Basis of the report
- II ☐ Priority
- III ☐ Non-establishment of opinion with regard to novelty, inventive step and industrial applicability
- IV ☐ Lack of unity of invention
- V ☒ Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement
- VI ☐ Certain documents cited
- VII ☐ Certain defects in the international application
- VIII ☐ Certain observations on the international application

Date of submission of the demand 16 July 2003 (16.07.2003)	Date of completion of this report 11 February 2004 (11.02.2004)
Name and mailing address of the IPEA/EP	Authorized officer
Facsimile No.	Telephone No.

## INTERNATIONAL PRELIMINARY EXAMINATION REPORT

International application No.

PCT/EP2002/006269

## I. Basis of the report

## 1. With regard to the elements of the international application:\*

- ☐ the international application as originally filed
- ☒ the description:  
pages \_\_\_\_\_ 2-5 \_\_\_\_\_, as originally filed  
pages \_\_\_\_\_, filed with the demand  
pages \_\_\_\_\_ 1,1a \_\_\_\_\_, filed with the letter of \_\_\_\_\_ 02 February 2004 (02.02.2004)
- ☒ the claims:  
pages \_\_\_\_\_, as originally filed  
pages \_\_\_\_\_, as amended (together with any statement under Article 19  
pages \_\_\_\_\_, filed with the demand  
pages \_\_\_\_\_ 1-26 \_\_\_\_\_, filed with the letter of \_\_\_\_\_ 02 February 2004 (02.02.2004)
- ☒ the drawings:  
pages \_\_\_\_\_ 1/4-4/4 \_\_\_\_\_, as originally filed  
pages \_\_\_\_\_, filed with the demand  
pages \_\_\_\_\_, filed with the letter of \_\_\_\_\_
- ☐ the sequence listing part of the description:  
pages \_\_\_\_\_, as originally filed  
pages \_\_\_\_\_, filed with the demand  
pages \_\_\_\_\_, filed with the letter of \_\_\_\_\_

## 2. With regard to the language, all the elements marked above were available or furnished to this Authority in the language in which the international application was filed, unless otherwise indicated under this item.

These elements were available or furnished to this Authority in the following language \_\_\_\_\_ which is:

- ☐ the language of a translation furnished for the purposes of international search (under Rule 23.1(b)).
- ☐ the language of publication of the international application (under Rule 48.3(b)).
- ☐ the language of the translation furnished for the purposes of international preliminary examination (under Rule 55.2 and/or 55.3).

## 3. With regard to any nucleotide and/or amino acid sequence disclosed in the international application, the international preliminary examination was carried out on the basis of the sequence listing:

- ☐ contained in the international application in written form.
- ☐ filed together with the international application in computer readable form.
- ☐ furnished subsequently to this Authority in written form.
- ☐ furnished subsequently to this Authority in computer readable form.
- ☐ The statement that the subsequently furnished written sequence listing does not go beyond the disclosure in the international application as filed has been furnished.
- ☐ The statement that the information recorded in computer readable form is identical to the written sequence listing has been furnished.

4. ☐ The amendments have resulted in the cancellation of:

- ☐ the description, pages \_\_\_\_\_
- ☐ the claims, Nos. \_\_\_\_\_
- ☐ the drawings, sheets/fig \_\_\_\_\_

5. ☐ This report has been established as if (some of) the amendments had not been made, since they have been considered to go beyond the disclosure as filed, as indicated in the Supplemental Box (Rule 70.2(c)).\*\*

\* Replacement sheets which have been furnished to the receiving Office in response to an invitation under Article 14 are referred to in this report as "originally filed" and are not annexed to this report since they do not contain amendments (Rule 70.16 and 70.17).

\*\* Any replacement sheet containing such amendments must be referred to under item 1 and annexed to this report.

## INTERNATIONAL PRELIMINARY EXAMINATION REPORT

International application No.

PCT/EP 02/06269

## V. Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

## 1. Statement

Novelty (N)	Claims	1-26	YES
	Claims		NO
Inventive step (IS)	Claims	1-26	YES
	Claims		NO
Industrial applicability (IA)	Claims	1-26	YES
	Claims		NO

## 2. Citations and explanations

1. The invention relates to a method (independent claim 1) and device (independent claim 23) for authenticating a participant claiming services in a wireless LAN using an IP multimedia subsystem of a mobile radio network.

## 2. Prior art:

Document WO 00/76249 (D1), which is considered to represent the closest prior art, discloses a method for authorising a mobile device to access the internet over a wireless LAN, GSM or UMTS access network. Access to the internet passes through a router which forwards to the internet only IP packets whose sender has been successfully authenticated.

For authentication purposes, the mobile device sends electronic payment means (which may also contain a certificate) to a control point that checks the electronic payment means at a bank or provider. If authentication by the provider or bank is successful, the control point sends an authentication message to the router, which from that moment on forwards the packets from the successfully authorised sender to the internet.

**3. Difference:**

In D1, the participant is authenticated by means of a control point, an electronic payment means and an associated certificate. On the contrary, in the invention an IP multimedia subsystem of a mobile radio network is used, by means of an SIP registration message.

**4. Problem:**

The invention addresses the problem of authenticating the participant in an efficient manner.

**5. Solution:**

According to the characterising features of claim 1, the wireless LAN assigns an IP address to the participant, who then is authenticated to the IP multimedia subsystem by indicating this address using SIP registration, an element of the wireless LAN being advised of the authentication.

There is no hint in the prior art, in particular in D1, which would lead a person skilled in the art to authenticate a participant in a wireless LAN to an IP multimedia subsystem of a mobile radio network using SIP registration.

The other documents cited in the international search report relate only to the general technical background of communication systems.

**Minor objection**

Like independent claim 1, independent claim 23 should be drafted in the two-part form recommended by PCT Rule 6.3 (b).